

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052525 A3

(51) International Patent Classification⁷: **B29C 45/76**

(21) International Application Number:
PCT/US2004/038939

(22) International Filing Date:
19 November 2004 (19.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/523,779 20 November 2003 (20.11.2003) US

(71) Applicants and

(72) Inventors: NICOL, William A. [US/US]; 2299 Pine Drive, Douglasville, GA 30135 (US). KACHNIC, Edward [US/US]; 4026 Hickory Nut Drive, Douglasville, GA 30135 (US). PRYHODA, Benjamin [US/US]; 530 Arbor Drive, Lafayette, CO 80026 (US).

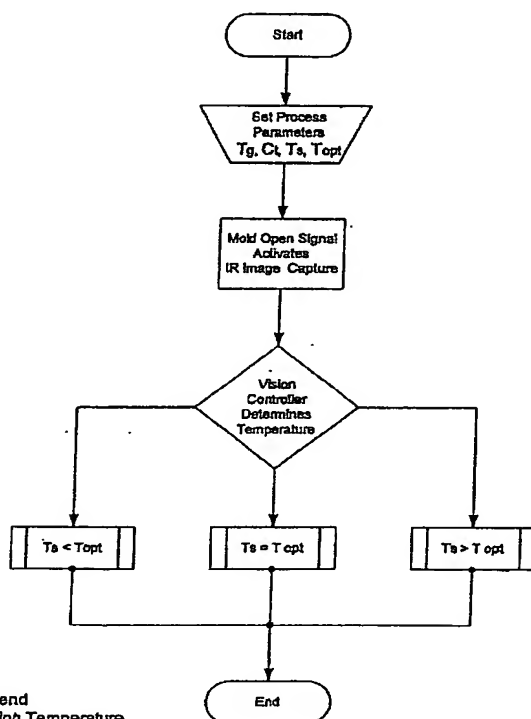
(74) Agent: SOVINSKI, Sandra; Myers & Kaplan, Intellectual Property Law LLC, 1899 Powers Ferry Road, Suite 310, Atlanta, GA 30339 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: SENSORY SYSTEM AND METHOD THEREOF



Legend
Tg = Glass Transition Temperature
Ts = Outside Surface Temperature
Topt = Optimum Ejection Temperature
Ct = Cooling Time

(57) Abstract: A sensory system and method for optimizing the cycle time of a part-forming process, wherein the temperature status of a molded part is ascertained and utilized to enable minimization of mold close time.

WO 2005/052525 A3



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
25 August 2005

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.